

US EPA RECORDS CENTER REGION 5



487742

SITE DESCRIPTION/EXECUTIVE SUMMARY

Site Name and Location

TRW Incorporated
902 Lyons Road
Portland, MI 48875

County: Ionia
Michigan Code Number: 34-06N-05W-28BB
DNR District: Grand Rapids
EPA ID Number: MID006017693

SAS Score/Screen No.: 05

TRW Incorporated, Portland, Michigan manufactures heavy duty steering linkages for use in heavy road equipment. Industrial wastes consist of cooling waters, soluble cutting oils and bonderizing rinses. These wastes are directed from inside storage tanks to the first of a series of three settling lagoons which finally discharges to a flood plain marsh, approximately 450 feet from the Grand River. Sanitary wastes, after initial treatment in a septic tank, are also discharged to the first lagoon of the series. Oil sludge was once disposed in a pit on the southeast corner of the site. The pit contents and associated contaminated soils were removed in 1972 and replaced with sand. Methanol, fuel oils and grease are currently stored in onsite barrels or underground tanks.

An April 1982 hydrogeological study determined that sanitary and process wastewater in the treatment lagoons or old sludge pit do not appear to be a potential hazard to the groundwater, however significant concentrations of PCB's, heavy metals, detergents, fecal coliforms, and oil were detected in sediment from the final effluent to the marsh in September 1980 and March 1973. Oil and grease were also discovered in a monitoring well located on plant property. Unconsolidated sand and gravel deposits comprise much of the soil material at the site. The plant and city residences depend on drinking water from municipal wells located one mile east from the site. The groundwater flow direction was determined to be toward the river and away from the municipal wells. Algae growth is overabundant in the treatment lagoons due to high levels of phosphate content in the wastewater.

Follow-up Recommendations to EPA

This site is a medium priority for site inspection. Further groundwater, surface water and soil samples need to be obtained to determine the level and extent of offsite contamination from the plant that may potentially impact the wetlands and drinking supply in the area.

Date of Previous Summary:
Previous Author:

Current Date: 6/17/85
Author: James Carr

Site Assessment Unit
Groundwater Quality Division
Michigan Dept. of Natural Resources



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
MI D006017693

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) TRW INCORPORATED		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 902 LYONS ROAD			
03 CITY PORTLAND	04 STATE MI	05 ZIP CODE 48875	06 COUNTY IONIA	07 COUNTY CODE 067	08 CONG DIST 5
09 COORDINATES LATITUDE 42° 52' 52"		LONGITUDE 84° 54' 36"		PORTLAND QUAD. 15' SERIES 1978 T. 6 N. R. 5 W. SEC. 28 BB	

10 DIRECTIONS TO SITE (Starting from nearest public road)

I-96 TO PORTLAND / GRAND RIVER EXIT. NORTH INTO PORTLAND ON GRAND RIVER AVE. ONE MILE, CROSS BRIDGE THEN NORTH ON LYONS ROAD. SITE IS ONE MILE NORTH OF ROAD.

III. RESPONSIBLE PARTIES

01 OWNER (if known) WALTER KNEVER, PLANT MGR.		02 STREET (Business, mailing, residential) SAME			
03 CITY SAME	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER (517) 647-4121		
07 OPERATOR (if known and different from owner) SAME		08 STREET (Business, mailing, residential) SAME			
09 CITY SAME	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()		

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☒ A. RCRA 3001 DATE RECEIVED: **8/19/80** MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103(a)) DATE RECEIVED: _____ MONTH DAY YEAR ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 4-82 MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input checked="" type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): FISHBECK, THOMPSON, CARR, + HUBER INC.			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION 1901 BEGINNING YEAR _____ ENDING YEAR <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

PCB'S, HEAVY METALS AND OIL IN SOIL SAMPLES.
OIL AND GREASE IN MONITORING WELL.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

GROUNDWATER (POPULATION / ENVIRONMENT)
SURFACE WATER (ENVIRONMENT)
SOIL (ENVIRONMENT)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT GERARD HEYT		02 OF (Agency/Organization) MDNR - GRAND RAPIDS DIST.		03 TELEPHONE NUMBER (616) 456-5071	
04 PERSON RESPONSIBLE FOR ASSESSMENT Sharon Nowlen		05 AGENCY MDNR - GROUNDWATER		06 ORGANIZATION 517 373-4800	
		07 TELEPHONE NUMBER 6 21 85		08 DATE MONTH DAY YEAR	



☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

EPA FORM 2070-12 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: MI 02 SITE NUMBER: D006017693

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: 1-23-80) ☐ POTENTIAL ☒ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 5585 04 NARRATIVE DESCRIPTION
OIL AND GREASE FOUND IN MONITORING WELL. PLANT AND CITY RESIDENCES ON MUNICIPAL WATER. GROUNDWATER FLOW IS TOWARD GRAND RIVER AND AWAY FROM HOMES + MUNICIPAL WELLS.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 3-9-78) ☐ POTENTIAL ☒ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 5585 04 NARRATIVE DESCRIPTION
INDUSTRIAL WASTE PONDS ARE CONTAMINATED WITH PHOSPHATES, DETERGENTS, FECAL COLIFORMS AND ZINC. PCB'S ARE ALSO PRESENT. SLUDGES AND CONTAMINATED SEDIMENT IN ADJACENT MARSH.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: N/A 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: N/A 04 NARRATIVE DESCRIPTION

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 1605 04 NARRATIVE DESCRIPTION

MARSH AREA AND GRAND RIVER ARE ACCESSABLE TO PUBLIC. POSSIBLE EXPOSURE OR INJURY COULD OCCUR TO INDIVIDUALS IN CONTACT WITH THESE AREAS.

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 9-23-80) ☐ POTENTIAL ☒ ALLEGED

03 AREA POTENTIALLY AFFECTED: 25 (ACRES) 04 NARRATIVE DESCRIPTION

PCB AND OIL CONTAMINATED SOILS. SOILS HAVE BEEN EXCAVATED AND REPLACED WITH CLEAN SAND AT SLUDGE PIT. SEDIMENT CONTAMINATED AT LAGOONAL DRAINAGE TO MARSH.

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: N/A 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: N/A 04 NARRATIVE DESCRIPTION

THREE TREATMENT LAGOONS ARE FENCED. OIL AND METHANOL TANKS ARE UNDERGROUND.

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 1605 04 NARRATIVE DESCRIPTION

SURFACE WATER DIRECT CONTACT IS MOST IMMINENT THREAT AT THIS SITE.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

MI D006017693

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA

02 ☒ OBSERVED (DATE: 9-27-80)

☐ POTENTIAL

☒ ALLEGED

04 NARRATIVE DESCRIPTION

SAMPLES TAKEN OF MARSH SEDIMENT SHOW CONTAMINATION.
ALGAE GROWTH OVERABUNDANT IN TREATMENT

01 ☒ K. DAMAGE TO FAUNA

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

THE GRAND RIVER IS 1/8 MILE AWAY AND IT IS FISHED.

01 ☐ L. CONTAMINATION OF FOOD CHAIN

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 1605

04 NARRATIVE DESCRIPTION

PLANT FLOOR HAS INADEQUATE SEALS AROUND GROUNDING RODS.
NOT SAFE IN CASE OF SPILLS.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~5585

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

MICHIGAN DNR GROUNDWATER QUALITY DIV. FILES.
GRAND RAPIDS DISTRICT FILES.
US CENSUS DATA.